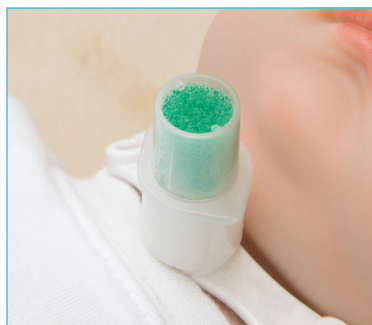




## Hydro-Therm™ Micro HME



**Airway Management** ▪ Heat and Moisture Exchangers (HME's)

## Hydro-Therm™ Micro HME

In normal respiration the anatomy of the upper airway helps to warm and humidify the inspired air, and to retain the warmth and moisture contained in the expired air. During inspiration, even cold or dry gas is typically heated to 37°C and when fully saturated contains 44mg H<sub>2</sub>O per liter. In mechanical ventilation or anesthesia, the patient's upper airway may be bypassed by the introduction of an artificial airway. As a result, the patient's lungs may be confronted with cold dry inspired gas. The side effects of this are well documented and include damaged cilia, thicker mucous, increased risk of tube occlusion and infection.

The Hydro-Therm Micro is a small volume, lightweight HME designed to replicate the functions of the body's upper airway by conserving expired heat and moisture and returning to the patient during inhalation.

The Hydro-Therm Micro is suitable for use on neonates and infants with a tracheostomy or for short term procedures and during transport.

### Small and lightweight

Reduces the risk of inadvertent pull and drag on the patient's airway

### Moisture return

Tested in accordance with ISO 9360, delivers a moisture return of 29.5mg H<sub>2</sub>O/L

### Low compressible volume

Reduces deadspace and potential rebreathing of expired Carbon Dioxide

### Safety by design

Safely secures the position of the media throughout use

### Low resistance to flow

Minimizes the work of breathing

### Suitable for use on neonatal and infant patients

With a tracheostomy, during transport or short procedures

### Larger surface area of HME media

The open celled foam HME maximizes moisture return with a low compressible volume



### Safe and secure connections

Tapered connections, compliant with ISO 5356

Code	Description	Case Qty.
1442000	Hydro-Therm Micro HME	120

<b>Code</b>	<b>1442000</b>
Moisture loss	9.2mg H <sub>2</sub> O/L
Calculated moisture return	29.5mg H <sub>2</sub> O/L
Resistance at 5L/min	0.3cm H <sub>2</sub> O
Resistance at 10L/min	0.8cm H <sub>2</sub> O
Dead space	2.2ml
Minimum tidal volume	>10ml
Weight	2.8g
Connectors	15ID/15OD